

An approved junction box shall be installed in the handhole of each pole that will accommodate the terminations of the underground cable with the cable in the pole serving the luminaires and to include a 480 volt grounded receptacle.

Secondary lightning arresters shall be rated for 650 volts RMS and shall be designed for outdoor use. The arresters shall be installed in each phase conductor to ground and shall be attached in or on the luminaire lowering device in a location accessible for inspection and servicing when the device is lowered.

SECTION 716 - STRUCTURAL ALUMINUM AND RELATED MATERIAL

716.01 Aluminum Railings

a. Aluminum Extrusions Traffic rails, hand rails, splice bars, and pales brackets shall conform to the requirements of ASTM B221M/B221, Alloy 6061-T6 or 6351-T5. Post and post bases shall conform to the requirements of ASTM B221M/B221), Alloy 6061-T6. Pales shall conform to the requirements of ASTM B429 Alloy 6063-T5. Washers shall conform to the requirements of ASTM B209M/B209), Alloy Alclad 2024-T4.

b. Aluminum Rivets Rivets shall conform to the requirements of ASTM B316M/B316, Alloy 6061-T6 (cold heading). Rivets shall have a button type manufactured head. Self-plugging, aluminum blind fasteners for pale panels shall meet the following requirements: 1) Sleeve-ASTM B211M/B211, Alloy 5056 (Stabilized), 2) Pin - ASTM B211M/B211), Alloy 2017 (Naturally Aged). The driven fastener shall meet the requirements for ultimate shear and tensile strength of Military Specification MIL-R-7885.

c. Miscellaneous Aluminum Parts Rail caps shall be either sand cast or permanent-mold cast and shall conform to the requirements of ASTM B26/B26M or ASTM B108, Alloy A356-T6. All aluminum bars and plates shall conform to the requirements of ASTM B209M/B209), Alloy 6061-T6. Standard structural shapes conform to the requirements of ASTM Specification B308.

d. Steel Anchor Assembly Steel spacers for post anchors shall conform to the

requirements of ASTM A36/A36M. Nuts embedded in concrete shall conform to the requirements of ASTM F568 Class 4.6 (ASTM A307).

Anchor bolts, exposed nuts and washers shall conform to the requirements of ASTM F568 Class 8.8 (ASTM A449 or ASTM F1554, Grade 55) and shall be hot dipped galvanized in accordance with ASTM A153 or ASTM B695, Class 50, Type 1.

e. Stainless Steel Parts Cap screws, for fastening clamp bars and set screws for panel brackets shall conform to the requirements of ASTM F593, Alloy Group 1, Condition CW.

SECTION 717 - ROADSIDE IMPROVEMENT MATERIAL

717.01 Fertilizer Fertilizer shall be commercial fertilizer having available elements in conformity with the standards of the Association of Official Agricultural Chemist. The fertilizer shall be furnished in unopened bags with the weight, contents, and guaranteed analysis shown there on or on a securely attached tag.

- (a) Grass Seed Fertilizer shall be;
 - 21% Nitrogen, of which 40% is Urea and 60% is Urea Formaldehyde Slow Release
 - 10% Phosphorus
 - 21% Muriate of Potash, 60% of which is Potassium oxide
- (b) Slow Release Fertilizer tablets - Planting Tablets shall be a long lasting 20-10-5 plus minors 21 gram [$\frac{3}{4}$ oz] tablet.
- (c) Water Soluble Fertilizer shall be;
 - 20% Nitrogen
 - 10% Phosphorus
 - 20% Potassium

Completely water soluble, non-corrosive, without chlorides or carbonates, and containing a color tracer dye.

717.02 Agricultural Ground Limestone Agricultural ground limestone shall have the following mechanical analysis: At least 50 percent shall pass the 150 μ m [No. 100] sieve,